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FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEY and WATER SUPPLY FORECASTS for NEVADA

UNITED STATES DEPARTMENT of AGRICULTURE...SOIL CONSERVATION SERVICE, and

NEVADA STATE ENGINEER

were obtained by the agencies named above crope on wit decral; State and private organizations listed the last of the propert.

FEB. 1, 1959

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

TO RECIPIENTS OF COOPERATIVE SNOW SURVEY AND WATER SUPPLY FORECAST REPORTS:

The climate of the cultivated and populated areas of the West is characterized by relatively dry summer months. Such precipitation as occurs falls mostly in the winter and early spring months when it is of little immediate benefit to growing crops. Fortunately, most of this precipitation falls as mountain snow which stays on the ground for months, melting later to sustain streamflow during the period of greatest demand during late spring and summer. Thus, nature provides in mountain snow an imposing water storage facility.

The amount of water stored in mountain snow varies from place to place as well as from year to year and accordingly, so does the runoff of the streams. The best seasonal management of variable western water supplies results from fore-knowledge of the runoff.

A snow survey consists of a series of about ten samples taken with specially designed snow sampling equipment along a permanently marked line, about 1000 feet in length, called a snow course. The use of snow sampling equipment provides snow depth and water equivalent values for each sampling point. The average of these values is reported as the snow survey measurement for a snow course.

Snow surveys are made monthly or semi-monthly beginning in January or February and continue through the snow season until April, May or June. Currently more than 1300 western snow courses are measured each year. These measurements furnish the key data for water supply forecasts.

By relating snow survey measurements taken over a period of years to spring-summer runoff during the same period, relationships have been developed which make it possible to forecast seasonal runoff several months in advance of occurrence. In order to make a forecast, once a forecast relationship has been developed, the maximum snow water content at previously selected key snow courses is usually entered in the forecast relationship. More accurate forecasts are often obtained when other factors such as soil moisture, base flow and spring precipitation are considered and included in the forecast relationships.

Listed below are the Federal-State-Private Cooperative Snow Survey and Water Supply Forecast reports available for the West which contain detailed information on snow survey measurements, streamflow forecasts, reservoir storage, soil moisture and other guide data to water management and conservation decisions.

PUBLISHED BY SOIL CONSERVATION SERVICE

REPORTS	ISSUED	COOPERATING WITH	LOCATION
RIVER BASINS			
COLORADO, RIO GRANDE	MONTHLY (FEBMAY)	COLO. EXP. STATIONFT. COLO. STATE ENGINEER NEW MEXICO STATE ENGINEER	. Collins. Colo.
COLUMBIA Includes Alaska	MONTHLY (JANMAY)	I DAHO STATE ENGINEER	BOISE, IDAHO
UPPER MISSOURI	MONTHLY (FEBMAY)	Mont.Agr.Exp.Station	BOZEMAN, MONTANA
WEST-WIDE	(OCT. 1. APR. 1	COOPERATORS	PORTLAND, OREGON
STATES		ı	
ARIZONA	SEM1-MONTHLY (JAN. 15-APR.1)	SALT R. VALLEY WATER	PHOENIX, ARIZONA
Nevada	MONTHLY (FEBAPR.)	NEVADA STATE ENGINEER	RENO. NEVADA
ORE GON	MONTHLY (JANMAY)	ORE.AGR.EXP.STATION	PORTLAND, OREGON
UTAH	MONTHLY (JANMAY)	UTAH STATE ENGINEERUTAH AGR.EXP.STATIONSAL	T LAKE CITY, UTAH
Washington	Monthly (FEBMay)	WASH. STATE DEPTSPO	KANE. WASHINGTON
WYOMING	Monthly (FebJune)	WYOMING STATE ENGINEER	CASPER. WYOMING
Copies of the	various reports may be see	cured from: Head, Water Supply Fore	casting Section

PUBLISHED BY OTHER AGENCIES

Soil Conservation Service

209 S.W. 5th Avenue, Portland 4, Oregon

OTHER SNOW SURVEY REPORTS	
BRITISH COLUMBIA MONTHLY	(FEBJUNE)
CALIFORNIAMonTHLY	(FEBMAY)

FEDERAL - STATE COOPERATIVE

SNOW SURVEYS AND WATER SUPPLY FORECASTS

For

NEVADA

Report Prepared

Ву

Norman S. Hall and Roy E. Malsor

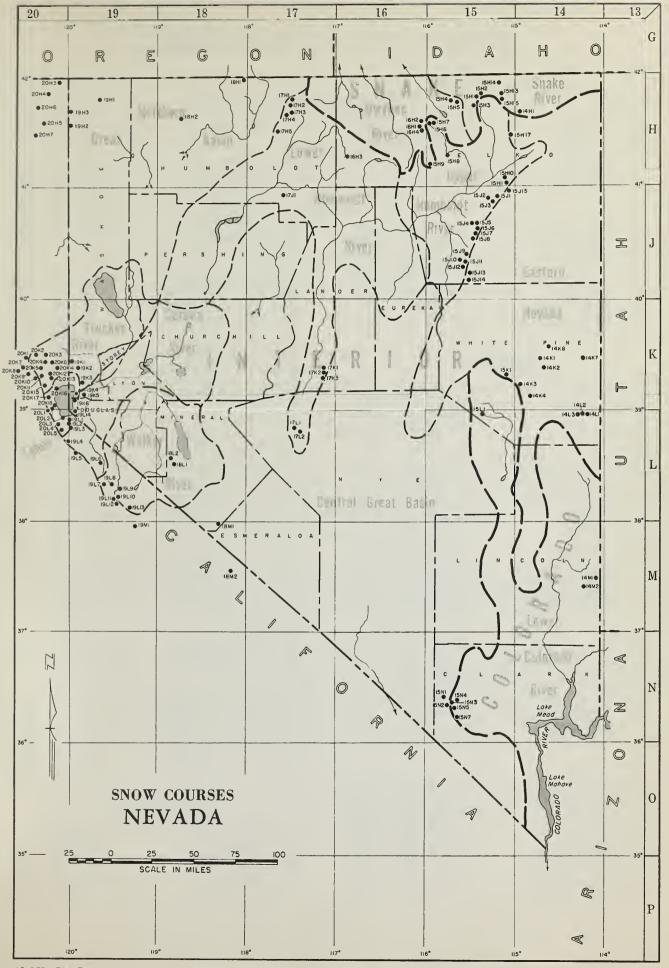
Soil Conservation Service 1479 Wells Avenue Reno, Nevada

Issued By

Charles W. Cleary, Jr. State Conservationist Soil Conservation Service Reno, Nevada Ed Muth
Nevada State Engineer
Department of Conservation
and Natural Resources
Carson City, Nevada

February 6, 1959





INDEX to NEVADA SNOW COURSES

Number Name	SEC. IWP. RGE.	ELEV. NUMBER	Na me	SEC.	TWP.	RGE.	ELEV.
SNAKE RIVER	BASIN	CENTRAL	GREAT BASIN				
SNAKE RIVER 15H 1 BEAR CREEK 15H 2 FOX CREEK 15H 3 76 CREEK 15H 5* GOLO CREEK	33 46N 58E 6 44N 58E	7800 15N 1 6800 18M 2 7100	MONTGOMERY PASS CAMPITO MTN	8 23 4 19		56E 55E 33E 35E	9000 8500 7100 10200
15H 4* BIG BENO 15H13 GOAT CREEK 15H14 POLE CREEK RANGER STATIC 15H15 HUMMINGBIRO SPRINGS 14H 1 JAKES CREEK	30 45N 56E 31 46N 60E N 13 46N 59E 6 45N 60E	6700 8800 19H 1 8330 18H 1 8945 18H 2 7000 19H 3	DISASTER PEAK LEONARO CREEK 49-MTN HAYS CANYON	17 8 13 7 1	47N 42N 42N 39N	21E 34E 28E 19E 18E 15E	6720 6500 5900 6000 6400 5900
	11 45N 39E 18 44N 40E	7200 20H 3	BARBER CREEK	23 12 31 35		1 6E 1 4E 1 6 E 1 5E	6500 7100 7000 8300
17H 4° GRANITE PEAK 15H 5 GOLO CREEK 15H 4 BIG BENO 15H 7° FRY CANYON 15H 6° ROOEO FLAT 16H 1 LOWER JACK CREEK 16H 2 UPPER JACK CREEK 15H 8° TREMEWAN RANCH 15H 9 TAYLOR CANYON 16H 4 JACKS PEAK	22 44N 39E 31 45N 56E 30 45N 56E 31 43N 54E 36 43N 53E 18 42N 53E 9 42N 53E 9 39N 55E 35 39N 53E 28 42N 53E	6600 LAKE T/ 6700 20L 4 6700 20L 1 6800 19L 3 6800 19L 2 7250 20K17 5700 19L 1 6200 20K16 8420 20L 2	(CAL.) LAKE LUCILLE (CAL.) RUBICON #1 (CAL.) HAGANS MEADOW (CAL.) FREEL BENCH (CAL.) WARO CREEK (CAL.) UPPER TRUCKEE (CAL.) TAHOE CITY (CAL.) RUBICON #2	6 36 36 21 21 6	1 2N 1 2N 1 5N 1 2N 1 5N 1 5N 1 3N	17E 17E 18E 18E 16E 17E 17E 17E	8400 8100 8000 7300 7000 6400 6250 7500 6700
INTERIO	R	20L 3 20L 5 19K 4	(CAL.) ECHO SUMMIT MARLETTE LAKE		12N 11N 15N	18E 18E 18E	6500 7500 8000
UPPER HUMBOLDT RIVER 15H 1* BEAR CREEK 15H 2* FOX CREEK 15H 3* 76 CREEK 15H 5* GOLO CREEK	31 46N 58E 33 46N 58E 6 44N 58E	7800 19K 6 6800 19K 2 7100 TRUCKE	DAGGETTS PASS GLENBROOK #2	13	1 3N 1 4N 1 7N	1 9E 1 8E 1 9E	7350 6900 9000
16H 2* UPPER JACK CREEK 15H 8 TREMEWAN RANCH 15H 9* TAYLOR CANYON 15H10 LOWER TROUT CREEK 15H11 UPPER TROUT CREEK 15J 1 DORSEY BASIN 15J 2 RYAN RANCH 15J 3 DRY CREEK 15J 4 LAMOILLE #1 15J 5 LAMOILLE #2 15J 6 LAMOILLE #2 15J 6 LAMOILLE #3 15J 7 LAMOILLE #4 15J 8 LAMOILLE #5 15J 9 GREEN MOUNTAIN 15J10 HARRISON PASS #1 15J11 HARRISON PASS #2	30 45N 56E 31 43N 53E 36 43N 53E 9 42N 53E 9 39N 55E 33 9N 55E 28 37N 61E 4 36N 61E 28 35N 60E 1 34N 59E 5 34N 60E 15 32N 58E 14 32N 58E 24 32N 58E 24 32N 58E 24 32N 58E 24 32N 58E 24 32N 58E 24 32N 58E 29 32N 59E 20 32N 59E 21 32N 59E 22 3 29N 57E 23 29N 57E 28N 57E	6700 20K 5 6700 20K 1 6800 20K 1 6800 20K 17 7250 20K 2 5700 20K 6 6200 20K 16 6900 20K 18 8500 20K 3 8500 20K 3 8500 20K 3 8500 20K 3 8700 20K 4 8700 20K 8 8700 20K 8	(CAL.) INOEPENOENCE LAKE (CAL.) WEBBER PEAK (CAL.) WARD CREEK (CAL.) WARD CREEK (CAL.) SAGE HEN CREEK (CAL.) TAHOE CITY (CAL.) TRUCKEE #2 (CAL.) BOCA #2 (CAL.) FOROYCE LAKE (CAL.) FOROYCE LAKE (CAL.) FOROYCE LAKE (CAL.) INOEPENOENCE CREE (CAL.) SOOA SPRINGS (CAL.) INOEPENOENCE CAMP MT. ROSE (CAL.) TRUCKEE RANGER STA	30 25 21 20 7 6 22 K 14 28 10 34 23 34 7 A . 10	19N 17N 15N 18N 18N 17N 19N 17N 17N 17N 17N 17N 17N 17N 17N 17N	15E 14E 16E 16E 17E 17E 17E 17E 17E 17E 17E 17E 17E 17	8450 8000 6900 7000 6500 6500 6500 6500 6500 6750 7000 9000 6000 9000 6300 7500
LOWER HUMBOLDT RIVER		CARSON 19L 4	(CAL.) CARSON PASS	22			8600
17H 2 LOWER BUCKSKIN 17H 1 UPPER BUCKSKIN 17H 3 MARTIN CREEK 17H 4 GRANITE PEAK 17H 5 LAMANCE CREEK 16H 3 MIOAS	18 44N 40E 22 44N 39E 13 42N 38E	6700 19L 6 7200 19L 5 6700 19K 5 7800 6000 WALKER	(CAL.) BLUE LAKES CLEAR CREEK		8N 9N 1 4N	19E	7900 8000 7300
17K 1 BIG CREEK CAMP GROUND 17K 2 BIG CREEK MINE 17K 3 UPPER BIG CREEK 17L 1 LOWER CORRAL 17L 2 UPPER CORRAL 17J 1 GOLCONDA	10 17N 43E 23 17N 43E 26 17N 43E 26 17N 40E 20 11N 41E 20	6600 19L12 7600 19L 7 8000 19L11 7500 19L13 8500 19L 9 6000 19L10	(CAL.) CENTER MOUNTAIN (CAL.) SONORA PASS (CAL.) BUCKEYE FORKS (CAL.) VIRGINA LAKES (CAL.) WILLOW FLAT (CAL.) BUCKEYE ROUGHS (CAL.) LEAVITT MEAOOWS	5 21 15 4	2N 5N 4N 5N	21E 23E 25E 23E 23E 22E	9400 8800 8500 9500 8260 7900 7200
EASTERN NEVADA 15J15 HOLE-IN-MTN 15J13 CAVE CREEK		7900 18L 2	* (CAL.) TIOGA PASS LAPON MEACOW MT. GRANT	30 36 23	8N	28E 28E	9900 9000 9000
15J14 HAGER CANYON 14K 3 MURRAY SUMMIT 14L 1 BAKER #1 14L 2 BAKER #2 14L 3 BAKER #3 14K 2 BERRY CREEK 14K 1 BIRO CREEK 15K 1 ROBINSON SUMMIT 14K 4 WARD MOUNTALN	34 27N 57E 25 16N 62E 29 13N 69E 30 13N 69E 25 13N 68E 26 17N 65E 34 19N 65E 34 18N 61E 25 15N 62E	8000 7250 7950 8950 9250 LOWER 9100 15N 2 7500 15N 4	COLORADO COLORADO RIVER KYLE CANYON #1 LEE CANYON #2 RAINBOW CANYON #2	26 10	195	56E 56E 56E 57E	8200 8300 9000 8100
14K 7 SILVER CREEK #2 14K 8 KALAMAZOO CREEK 15L 1* WHITE RIVER #1	34 20N 65E	8000 1 4M 1 7400 1 4M 2	MATHEW CANYON PINE CANYON WHITE RIVER #1	11	5S 6S	70E 69E 59E	6000 6200 7400

WATER SUPPLY OUTLOOK FOR NEVADA

February 1, 1959

The water supply from the snow pack throughout Nevada will be extremely low. All water users will have to exercise extra care to get the greatest benefit from their supply. Most reservoirs are above normal and irrigation water users can expect full supplies. But those who do not have reservoir storage and must depend on natural streamflow are faced with a water shortage.

Snow surveys made in northern Nevada on the Ovyhee and Snake River watershed indicate snow stored water to be among the lowest on record. Water content of all the courses measured is significantly lower than last year. Runoff prospects now appear to be among the lowest on record and Wild Horse Reservoir is not expected to fill.

On the Upper Humboldt River, snow stored water is about 30 percent of the February 1, 1938-52 15-year average. Mountain soil moisture at high elevations is very dry beneath the snow pack while lower elevation soils are only partially wet. A significant amount of snow water will be used to saturate the soil before runoff occurs.

The best water supply in Nevada exists in the Lower Humboldt in the Santa Rosa Mountains above Paradise Valley. Even here, the present snow pack is only about 75 percent of the 15-year 1938-52 February 1 normal. Valley precipitation during fall and winter months has been less than half of the normal. Because no reservoir storage exists, ranchers can expect limited irrigation water supplies and very low flows in early summer.

In southeastern Nevada, the snow courses at Pine and Mathew Canyon on Clover Creek, tributary of Meadow Valley Wash, were bare of snow. Fall precipitation has been low in this area. The soil is dry at lower elevations and only slightly wet at higher elevations.



In the Sierra Mountains, snow surveys on the Truckee River watershed indicate the snow pack to be about 40 percent of the February 1, 1938-52 15-year average. In the Lake Tahoe basin high elevation courses were about 40 percent while the low elevation courses were 23 percent of the February 1, 1938-52 15-year average. On January 31, the elevation of Lake Tahoe was 6227.36 feet above sea level.

Moving south along the eastern slope of the Sierra Mountains, Carson Pass snow course measured 14.1 inches of water or 67 percent of the February 1, 1938-52 15-year average. In the Walker River watershed, lack of past February 1 record makes comparison difficult but snow stored water appears to be about 40 percent of the February 1 average.

The U.S. Geological Survey reports that streamflow during January on the Humboldt River at Palisade was 7,240 acre-feet or about 169 percent of median, while the West Walker at Coleville, California was 3,050 acre-feet or about 106 percent of median.

Statewide reservoir storage is good. Seven important reservoirs stored 947,000 acre-feet which is 69 percent of available capacity or 123 percent of the February 1, 1938-52 15-year average. Rye Patch Reservoir on the Humboldt River stored 115,000 acre-feet or 140 percent of the February 1 average. Storage in Lake Mead is 21,515,000 acre-feet.



NEVADA

STATUS OF RESERVOIR STORAGE

FEBRUARY 1, 1959

		USABLE	USABLE STORAGE - 1000 ACRE FEET FEBRUARY 1						
BASIN AND STREAM	RESERVOIR	CAPACITY (1000 AF)	1959	1958	1957	15-YR. AVE. 1938-52			
Owyhee	Wild Horse	33	21	27	19	11			
Lower Humboldt	Rye Patch	179	115	70	38	82			
Colorado	Mohave	1,810	1,678	1,541	1,670	New Reservoir*			
Colorado	Mead	27,217	21,515	20,013	11,768	19,082			
Tahoe	Tahoe	732	523	526	560	412			
Truckee	Boca	41	4	4	14	12			
Carson	Lahontan	286	202	178	195	188			
West Walker	Topaz	59	45	24	49	35			
East Walker	Bridgeport	42	37	24	35	30			

^{*} Storage began in 1950. The 1950-58 average is 1,439,500 acre feet.



					THOLL GO	TED MEAN	CI III TONGTON	mc .	
				1959	STAOM CO.	Pas	SUREMEN t. R.e.	cord	
DRAINAGE BASIN			Date	Snow:	Water			t (In.)	Prior
and		Elev.	of	Depth:	Content			1938-52	
SNOW COURSE	No.	(Ft.)	Survey	(In.):	(In.)	:1958	1957	Avg.	Record
SNAKE RIVER Bear Creek	15H1	7800	1/28	47	10.7	12.1	12.5	-	74
*Big Bend Fox Creek	15H4 15H2	6700 6800	1/27 1/28	13 27	3.0 4.6	8.2 8.0	3.9 4.7	10.6	11 1 ₁
Goat Creek	15H13	8800	1/29	31	7.6	12.4	10.3	_	4
*Gold Creek Hummingbird	15H5	6600	1/27	10	2.5	7.0	2.1	5.8	10
Springs	15H15	8945	1/29	35	8.2	14.3	12.8	-	4
Pole Creek R.S.	15H14	8330	1/29	36	8.9	13.0	11.3	-	74
76-Creek	15H3	7100	1/29	24	4.9	10.4	4.9	-	4
OWYHEE RIVER *Bear Creek Big Bend	15H1 15H4	7800 6700	1/28 1/27	47 13	10.7	12.1	12.5 3.9	- 10.6	4 11
*Fox Creek	15H2	6800	1/28	27	4.6	8.0	4.7	-	4
Fry Canyon Gold Creek	15H7 15H5	6700 6600	1/27 1/27	5	1.2	9.7	3.5	8.5	9
*Granite Peak	17H4	6700	1/30	10 21	2.5 5.6	7.0 11.6	2. l 9.9	5.8 -	10 3
Lower Jack Cr.	16H1	6800	1/28	13	1.5	6.7	2.8	_	3
*Martin Creek	17Н3	6700	1/30	19	4.2	6.8	4.2	-	3
*Rodeo Flat	15H6	6800	1/27	4	0.8	9.7	3.4	7.8	9
*76-Creek Taylor Canyon	15H3 15H9	7100 6200	1/29 1/28	24 7	4.9	10.4	4.9	-	4
*Tremewan Ranch	15H8	5700	1/27	0	1.9	2.1	1.8	-	3 4
Upper Jack Cr.	16H2	7250	1/28	23	4.7	11.6	6.8	-	3
UPPER HUMBOLDT RIV			- / 0	,					
*Bear Creek *Big Bend	15H1 15H4	7800 6700	1/28 1/27	47	10.7	12.1	12.5	-	4
*Fox Creek	15H2	6800	1/28	13 27	3.0 4.6	8.2 8.0	3.9 4.7	10.6	11 4
Fry Canyon	15H7	6700	1/27	5	1.2	9.7	3.5	8.5	9
*Gold Creek	15H5	6600	1/27	10	2.5	7.0	2.1	5.8	10
Lamoille #1	15J4	7100	2/2	16	3.1	9.2	6.0	5.1	14
Lamoille #2 Lamoille #3	15J5 15J6	7200 7700	2/2	16 18	3.6 4.2	9.3	4.7	-	6
Lamoille #4	15J7	8000	,	o Survey		9.9 14.7	7.1 11.3	_	6 6
Lamoille #5	15J8	8700		o Survey		23.2	15.3	-	6
*Lower Jack Cr.	16H1	6800	1/28 ·	9	1.5	6.7	2.8	-	3
Rodeo Flat *76-Creek	15H6	6800	1/27	4	0.8	9.7	3.4	7.8	3 9 4
*Taylor Canyon	15H3 15H9	7100 6200	1/29 1/28	24 7	4.9 1.9	10.4	4.9	-	4
Tremewan Ranch	15H8	5700	1/27	0	0	5.2 2.1	1.8	_	3
*Upper Jack Cr.	16H2	7250	1/28	23	4.7	11.6	6.8	-	3 3 3
LOWER HUMBOLDT RIV									
Granite Peak Martin Creek	17H4	7800	1/30	21	5.6	11.6	9.9	-	3
nar offi creek	17H3	6700	1/30	19	4.2	6.8	4.2	-	3

^{*} Located on adjacent drainage



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				1959	SNOW COV	Pas		cord	
DRAINAGE BASIN			Date	Snow:	Water			t (In.)	Prior
and		Elev.	of	Depth:	Content			1938-52	
SNOW COURSE	No.	(Ft.)	Survey	(In.)	(In.)	1958	1957	Avg.	Record
TOTAL COLORADO DEL	/TID								
LOWER COLORADO RIV Mathew Canyon	14Ml	6000	1/31	0	0	0	6.3	2.8	10
Pine Canyon	14M2	6200	1/31	0	0	0	6.3	3.3	10
1 1110 0001, 011			-, 5-		, i	_	0.5	3.3	
TAHOE			- /	0					
Daggetts Pass	19L14	7350	1/27	8	1.5	7.9	6.2	9.2	12
Echo Summit Glenbrook #2	20L5 19K6	7500 6900	1/30 1/27	44 11	12.6 3.0	20.0	19.3 5.8	25.9** 11.7	17 6
Marlette Lake	19K4	8000	1/27	22	5.5	15.7	9.7	14.1**	18
Richardsons #2	20L3	6500	1/27	20	5.8	13.0	11.1	17.6	9
Tahoe City	20K16	6250	1/28	6	1.6	9.1	8.6	9.4	24
Ward Creek	20Kl7	7000	1/28	42	12.3	24.9	20.9	29.8	11
TRUCKEE RIVER									
Boca #2	20K14	5900	1/30	T	T	9.0	5.3	7.4	11
Donner Lake #1	20Kll	5950	1/30	16	5.8	16.9	12.6	17.4	10
Donner Park #2	20K2l	6000	1/30	15	5.4		New Co	The state of the s	
*Donner Summit	20K10	6900	1/26	37	10.9	20.0	15.4	23.2	37
*Fordyce Lake	20K7	6500	1/27	32	11.0	-	17.4	21.3**	
*Furnace Flat	20K8 20K6	6600 6500	1/27	35 18	13.0 5.7	10.1	22.4	24.1** 15.0	_
Sage Hen Creek *Soda Springs	20K0	6750	1/29 1/26	36	13.0	19.3	16.2	21.6	15 29
Tahoe City	20K16	6250	1/28	6	1.6	9.1	8.6	9.4**	
Truckee #2	20K13	6400	1/29	15	3.9	9.1	9.0	10.4	9
*Ward Creek	20K17	7000	1/28	42	12.3	24.9	20.9	29.8	11
Independence	2075	7000	7 /00	07	()	30 (_
Camp	20K4	7000	1/29	21	6.0	12.6	~		5
CARSON RIVER									
Carson Pass	19L4	8600	1/27	43	14.1	21.0	16.9	20.9	28
WALKER RIVER Virginia Lakes	19L13	9500	1/26	22	4.3	9.2	7.8		5
Sonora Pass	19L7	8800	1/26	31	7.8	14.2			5 5
Tioga Pass	19M1	9900	1/28	27	8.3	13.0	8.4	19.4	10
			,	·					
WHITE MOUNTAINS	2 02 60	7.0000	7 /00	0	^		N O .		
Campito Mtn. Montgomery Pass	18M2 18M1	10200 7100	1/30 1/30	0	0		New Co		
Montgomery Pass	TOMT	_TOO	1/30	O	O		ING W CO	m se	
NORTHERN GREAT BAS	SIN (Sur								
Hays Canyon	19H2	6400	2/3	5	1.5	1.8		Course	
49-Mountain	19H3	6000	2/2	6	1.4	3.8		Course	
Reservation Cr.	20Hl 20H2	5900 6500	2/2 2/3	12 18	3·7 4·7	11.1		Course Course	
Barber Creek	20112	0300	2/3	TO	4 • (フ・ブ	1/6 M	COUL SE	

^{*} Located on adjacent drainage

^{**} Average is for less than 15 years of record in the 1938-52 period



Agencies Cooperating in Collecting Data Contained in this Bulletin

FEDERAL

Soil Conservation Service
Forest Service
Geological Survey
Bureau of Reclamation
Fish and Wildlife Service
Army
Navy
Weather Bureau
Agricultural Research Service

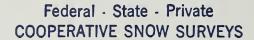
STATE

Nevada Department of Conservation & Natural Resources
Nevada State Engineer
Nevada State Forester-Firewarden
Nevada Cooperative Snow Surveys
Colorado River Commission of Nevada
California Cooperative Snow Surveys
California Department of Water Resources
Oregon Cooperative Snow Surveys
Nevada Association of Soil Conservation Districts

PRIVATE

Walker River Irrigation District
Amalgamated Sugar Company
Owyhee Project North Board of Control
Owyhee Project South Board of Control
Virginia City Water Company
Kennecott Copper Corporation
Squaw Valley Development Company
Pacific Gas & Electric Company
Nevada Irrigation District
Sierra Pacific Power Company
Washoe County Water Conservation District
Truckee-Carson Irrigation District
Pershing County Water Conservation District

Other organizations and individuals furnish valuable information for the snow survey reports. Their Cooperation is gratefully acknowledged.



Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"The Conservation of Water begins with the Snow Survey"